

Glyphosate N-acetylation

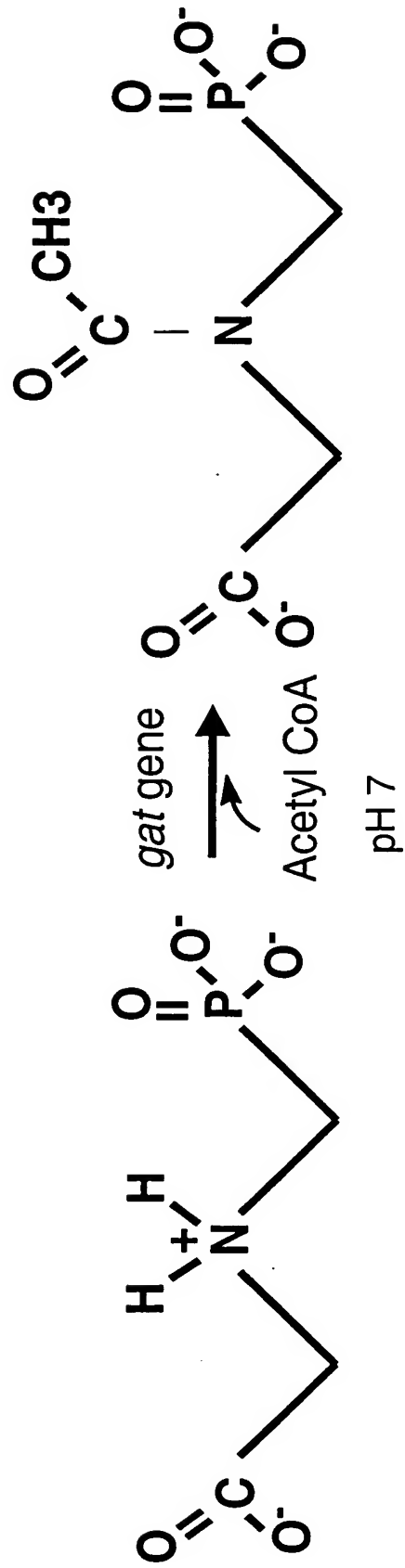


Figure 1

Figure 2

Reaction product identified as N-acetylglucosamine

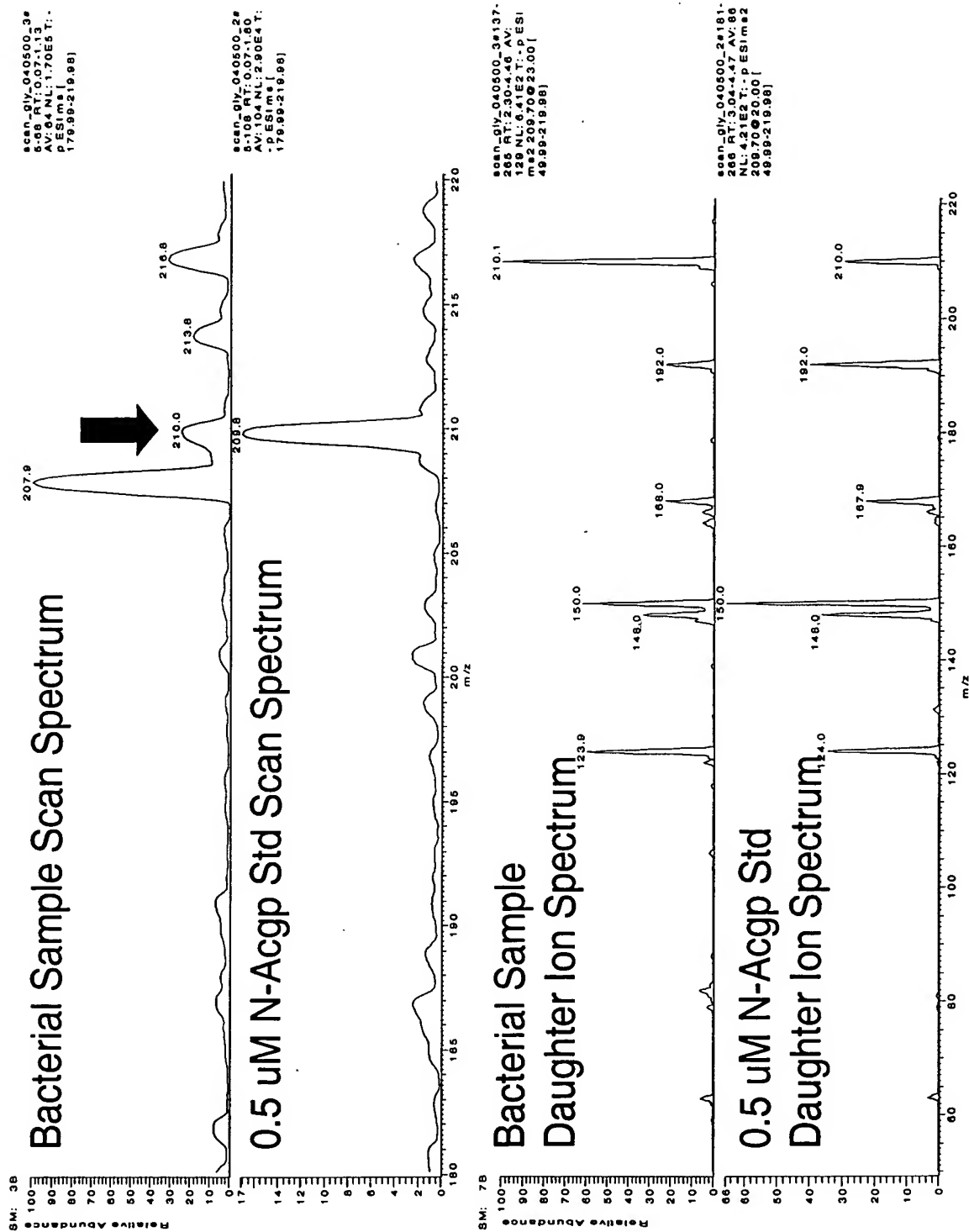


Figure 3

Nucleotide identity between sequence pairs

	B6	DS3	ST401	NHA-2	NH5-2	yitI
B6	***	95.0	93.2	94.8	92.8	62.0
DS3		***	95.5	99.8	95.0	61.8
ST401			***	95.2	99.5	62.4
NHA-2				***	94.8	61.5
NH5-2					***	62.9
yitI						***

Figure 4

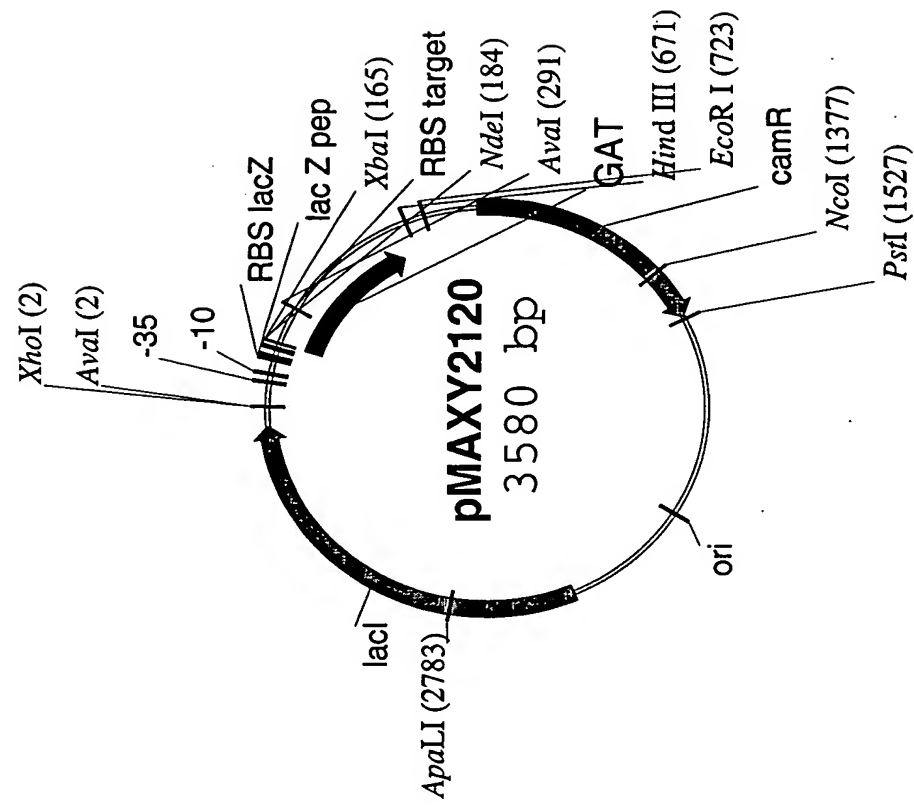
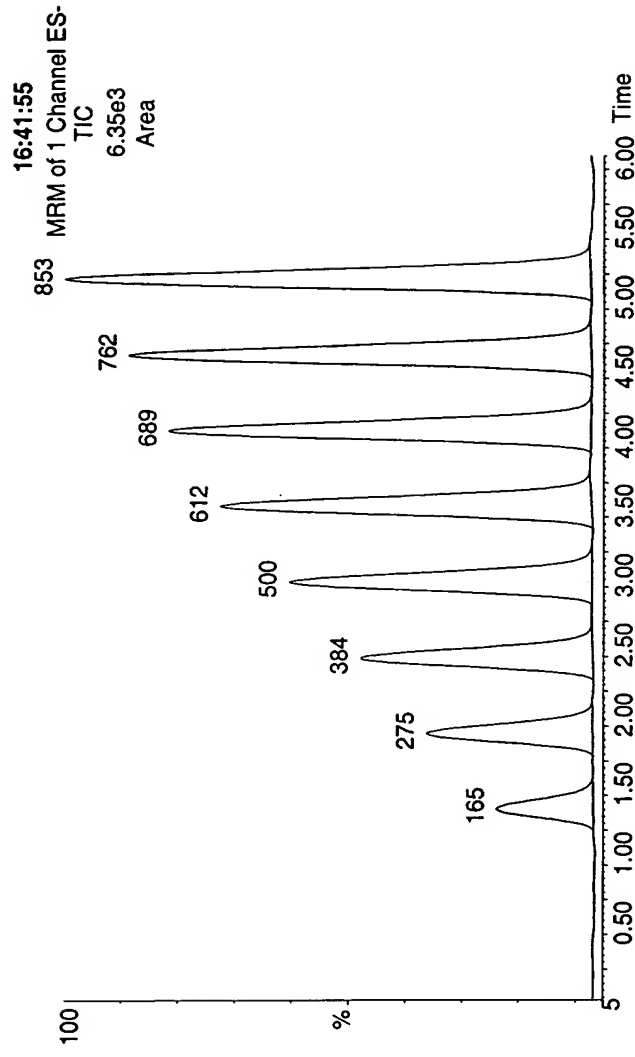
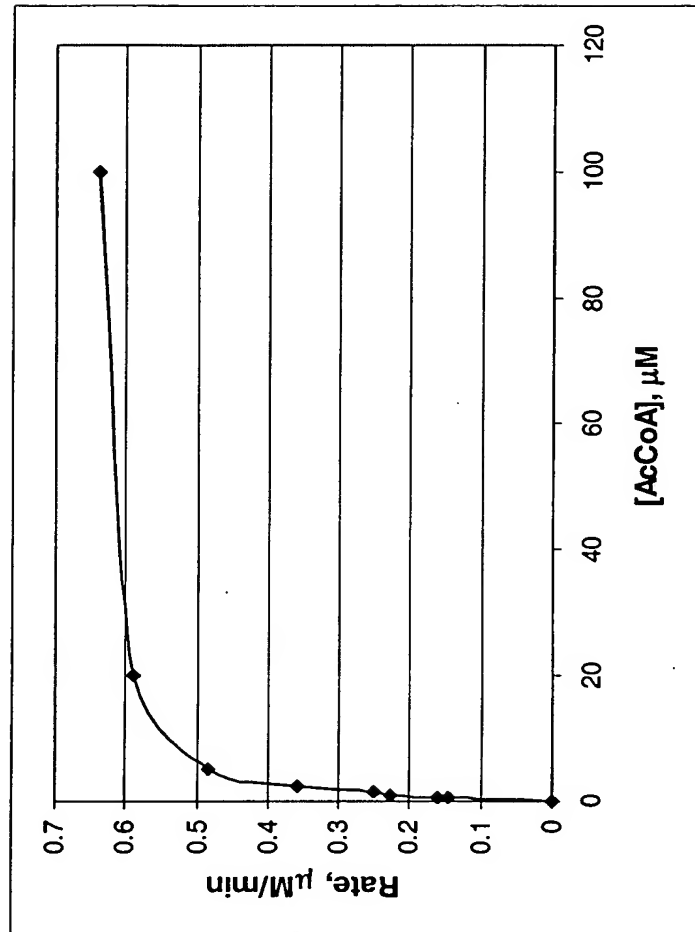


Figure 5



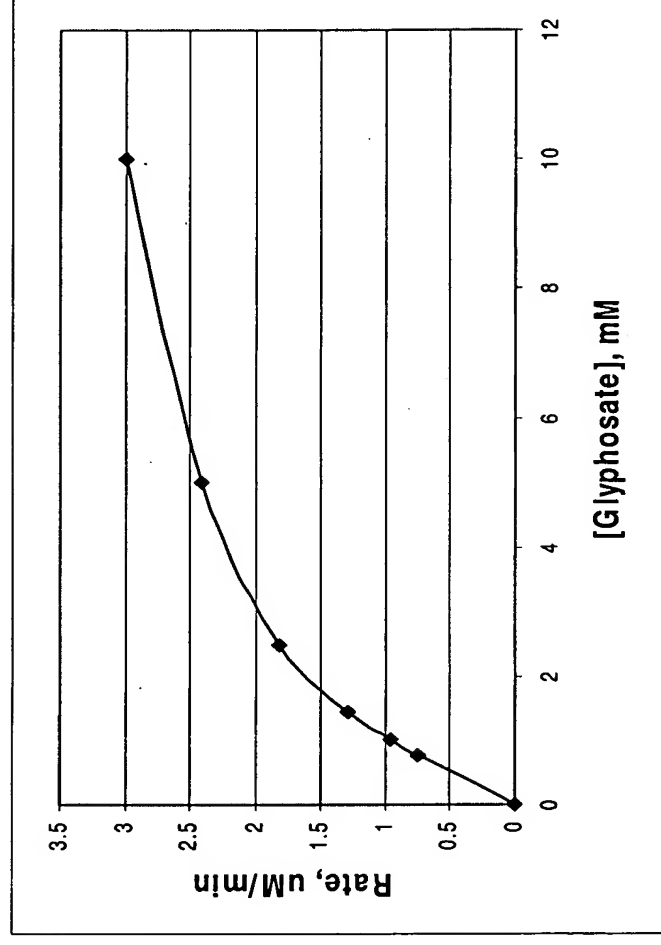
Purified B6 GAT catalyzes
N-acetylglucosamine production

Figure 6



B6 GAT K_M for Acetyl CoA = 2 μM

Figure 7



B6 GAT K_M for glyphosate = 2.9 mM

Figure 9

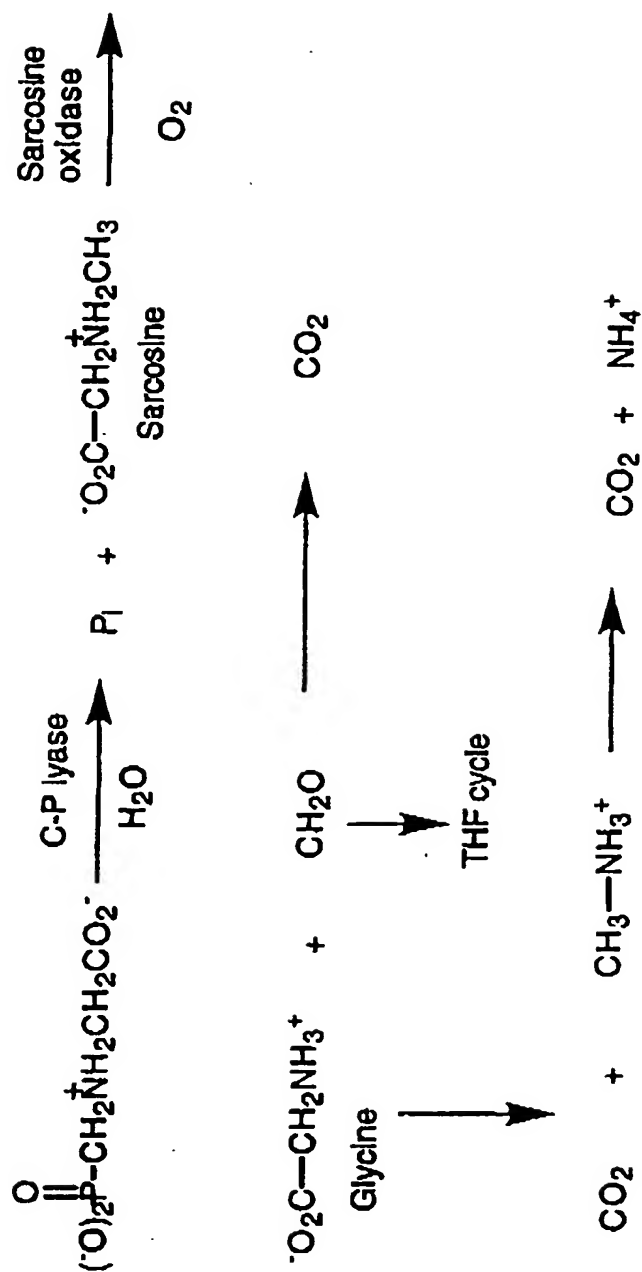


Figure 10

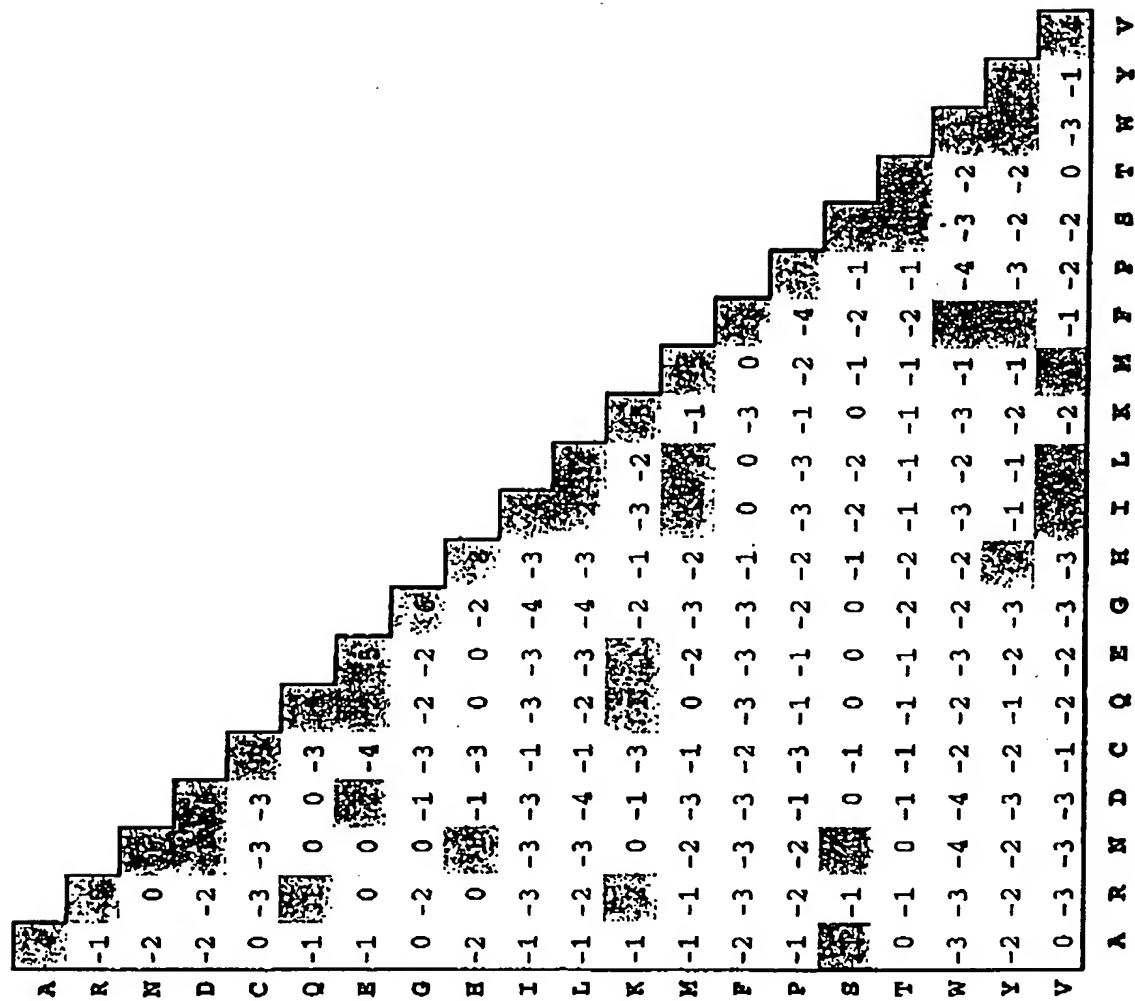


Figure 11

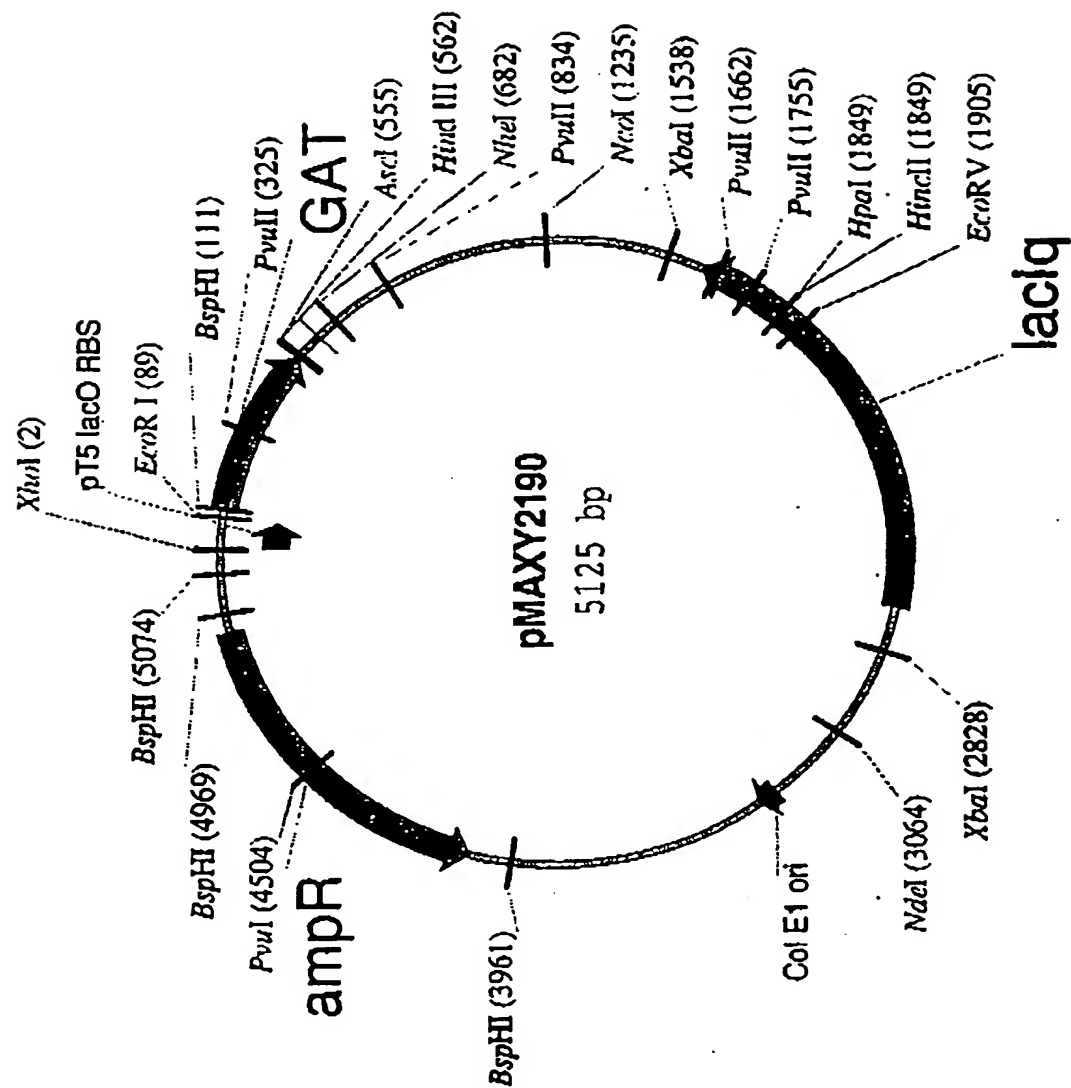


Figure 12

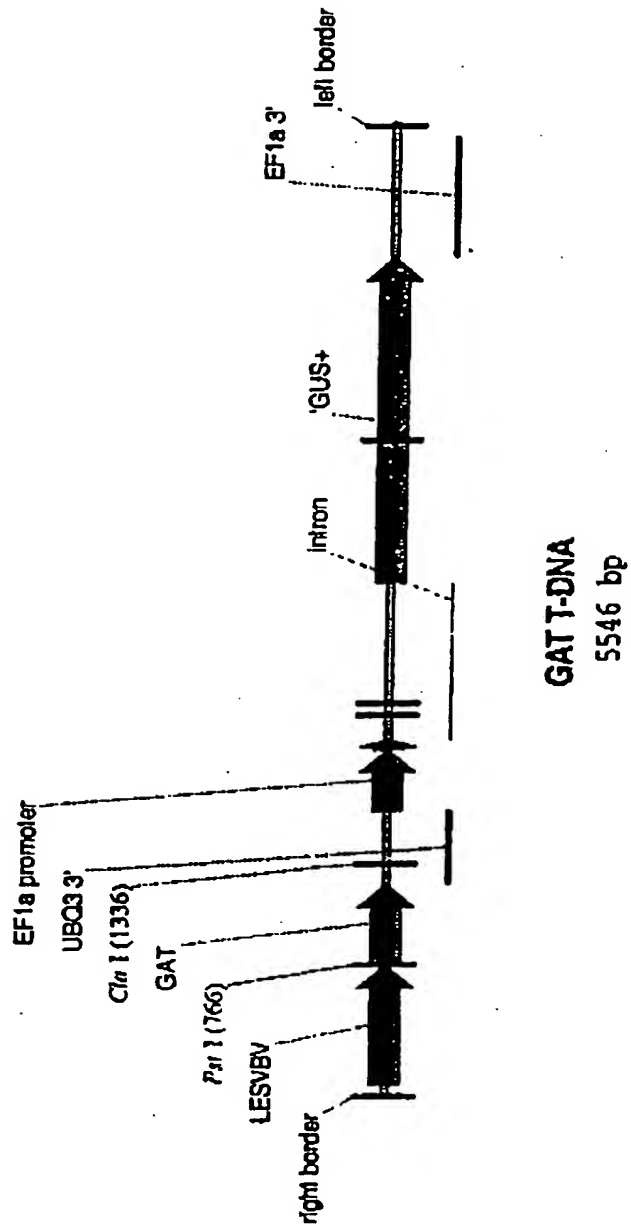


Figure 13

